

1642

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/632,036

DATE: 04/22/2001  
TIME: 13:48:02

Input Set : A:\ES.txt  
Output Set: N:\CRF3\04222001\I632036.raw

Does Not Comply  
Corrected Diskette Needed

P. 4

3 <110> APPLICANT: Kaumaya, Pravin  
4 Stevens, Vernon  
5 Triozzi, Pierre  
7 <120> TITLE OF INVENTION: Polypeptides and Polynucleotides for Enhancing Immune Reactivity to  
HER-2  
8 Proteins  
10 <130> FILE REFERENCE: 18525/04011  
12 <140> CURRENT APPLICATION NUMBER: 09/632,036  
13 <141> CURRENT FILING DATE: 2000-08-03  
15 <150> PRIOR APPLICATION NUMBER: 60/146,869  
16 <151> PRIOR FILING DATE: 1999-08-03  
18 <160> NUMBER OF SEQ ID NOS: 41  
20 <170> SOFTWARE: PatentIn version 3.0  
22 <210> SEQ ID NO: 1  
23 <211> LENGTH: 19  
24 <212> TYPE: PRT  
25 <213> ORGANISM: Homo sapiens  
27 <400> SEQUENCE: 1  
29 Thr Gly Thr Asp Met Lys Leu Arg Leu Pro Ala Ser Pro Glu Thr His  
30 1 5 10 15  
32 Leu Asp Met  
35 <210> SEQ ID NO: 2  
36 <211> LENGTH: 22  
37 <212> TYPE: PRT  
38 <213> ORGANISM: Homo sapiens  
40 <400> SEQUENCE: 2  
42 Ala Val Leu Asp Asn Gly Asp Pro Leu Asn Asn Thr Thr Pro Val Thr  
43 1 5 10 15  
45 Gly Ala Ser Pro Gly Gly  
46 20  
48 <210> SEQ ID NO: 3  
49 <211> LENGTH: 22  
50 <212> TYPE: PRT  
51 <213> ORGANISM: Homo sapiens  
53 <400> SEQUENCE: 3  
55 Leu Trp Lys Asp Ile Phe His Lys Asn Asn Gln Leu Ala Leu Thr Leu  
56 1 5 10 15  
58 Ile Asp Thr Asn Arg Ser  
59 20  
61 <210> SEQ ID NO: 4  
62 <211> LENGTH: 35  
63 <212> TYPE: PRT  
64 <213> ORGANISM: Homo sapiens  
66 <400> SEQUENCE: 4  
68 Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro Cys Ser Pro  
69 1 5 10 15  
71 Met Cys Lys Gly Ser Arg Cys Trp Gly Glu Ser Ser Glu Asp Cys Gln  
72 20 25 30

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74 Ser Leu Thr
75      35
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78 <211> LENGTH: 21
79 <212> TYPE: PRT
80 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 5
84 Ala Leu Val Thr Tyr Asn Thr Asp Thr Phe Glu Ser Met Pro Asn Pro
85 1      5      10      15
87 Glu Gly Arg Tyr Thr
88      20
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 24
92 <212> TYPE: PRT
93 <213> ORGANISM: Homo sapiens
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97 Pro Leu His Asn Gln Glu Val Thr Ala Glu Asp Gly Thr Gln Arg Ala
98 1      5      10      15
100 Glu Lys Cys Ser Lys Pro Cys Ala
101      20
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104 <211> LENGTH: 18
105 <212> TYPE: PRT
106 <213> ORGANISM: Homo sapiens
108 <400> SEQUENCE: 7
110 Pro Glu Ser Phe Asp Gly Asp Pro Ala Ser Asn Thr Ala Pro Leu Gln
111 1      5      10      15
113 Pro Glu
116 <210> SEQ ID NO: 8
117 <211> LENGTH: 20
118 <212> TYPE: PRT
119 <213> ORGANISM: Homo sapiens
121 <400> SEQUENCE: 8
123 Leu Tyr Ile Ser Ala Trp Pro Asp Ser Leu Pro Asp Leu Ser Val Phe
124 1      5      10      15
126 Gln Asn Leu Gln
127      20
129 <210> SEQ ID NO: 9
130 <211> LENGTH: 19
131 <212> TYPE: PRT
132 <213> ORGANISM: Homo sapiens
134 <400> SEQUENCE: 9
136 Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr Ala Asn Arg Pro
137 1      5      10      15
139 Glu Asp Glu
142 <210> SEQ ID NO: 10
143 <211> LENGTH: 34
144 <212> TYPE: PRT
145 <213> ORGANISM: Homo sapiens

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147 <400> SEQUENCE: 10
149 Cys Leu Pro Cys His Pro Glu Cys Gln Pro Gln Asn Gly Ser Val Thr
150 1                      5                      10                      15
152 Cys Phe Gly Pro Glu Ala Asp Gln Cys Val Ala Cys Ala His Tyr Lys
153                      20                      25                      30
155 Asp Pro
158 <210> SEQ ID NO: 11
159 <211> LENGTH: 18
160 <212> TYPE: PRT
161 <213> ORGANISM: Homo sapiens
163 <400> SEQUENCE: 11
165 Lys Pro Asp Leu Ser Tyr Met Pro Ile Trp Lys Phe Pro Asp Glu Glu
166 1                      5                      10                      15
168 Gly Ala
171 <210> SEQ ID NO: 12
172 <211> LENGTH: 22
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 12
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179 1                      5                      10                      15
181 Ala Glu Gln Arg Ala Ser
182                      20
184 <210> SEQ ID NO: 13
185 <211> LENGTH: 19
186 <212> TYPE: PRT
187 <213> ORGANISM: Clostridium tetani
189 <400> SEQUENCE: 13
191 Asn Ser Val Asp Asp Ala Leu Ile Asn Ser Thr Ile Tyr Ser Tyr Phe
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194 Pro Ser Val
197 <210> SEQ ID NO: 14
198 <211> LENGTH: 17
199 <212> TYPE: PRT
200 <213> ORGANISM: Clostridium tetani
202 <400> SEQUENCE: 14
204 Pro Gly Ile Asn Gly Lys Ala Ile His Leu Val Asn Asn Gln Ser Ser
205 1                      5                      10                      15
207 Glu
210 <210> SEQ ID NO: 15
211 <211> LENGTH: 15
212 <212> TYPE: PRT
213 <213> ORGANISM: Clostridium tetani
215 <400> SEQUENCE: 15
217 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
218 1                      5                      10                      15
220 <210> SEQ ID NO: 16
221 <211> LENGTH: 21
222 <212> TYPE: PRT

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/632,036

DATE: 04/22/2001  
TIME: 13:48:02

Input Set : A:\ES.txt  
Output Set: N:\CRF3\04222001\I632036.raw

223 <213> ORGANISM: Clostridium tetani  
225 <400> SEQUENCE: 16  
227 Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser  
228 1 5 10 15  
230 Ala Ser His Leu Glu  
231 20  
233 <210> SEQ ID NO: 17  
234 <211> LENGTH: 15  
235 <212> TYPE: PRT  
236 <213> ORGANISM: Measles virus  
238 <400> SEQUENCE: 17  
240 Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly Val  
241 1 5 10 15  
243 <210> SEQ ID NO: 18  
244 <211> LENGTH: 15  
245 <212> TYPE: PRT  
246 <213> ORGANISM: Hepatitis B virus  
248 <400> SEQUENCE: 18  
250 Phe Phe Leu Leu Thr Arg Ile Leu Thr Ile Pro Gln Ser Leu Asn  
251 1 5 10 15  
253 <210> SEQ ID NO: 19  
254 <211> LENGTH: 20  
255 <212> TYPE: PRT  
256 <213> ORGANISM: Plasmodium falciparum  
258 <400> SEQUENCE: 19  
260 Thr Cys Gly Val Gly Val Arg Val Arg Ser Arg Val Asn Ala Ala Asn  
261 1 5 10 15  
263 Lys Lys Pro Glu  
264 20  
266 <210> SEQ ID NO: 20  
267 <211> LENGTH: 4  
268 <212> TYPE: PRT  
269 <213> ORGANISM: None  
271 <400> SEQUENCE: 20  
273 Gly Pro Ser Leu  
274 1  
276 <210> SEQ ID NO: 21  
277 <211> LENGTH: 9  
278 <212> TYPE: PRT  
279 <213> ORGANISM: Homo sapiens  
281 <400> SEQUENCE: 21  
283 Ile Leu Trp Lys Asp Ile Phe His Lys  
284 1 5  
286 <210> SEQ ID NO: 22  
287 <211> LENGTH: 9  
288 <212> TYPE: PRT  
289 <213> ORGANISM: Homo sapiens  
291 <400> SEQUENCE: 22  
293 Ile Leu Lys Glu Thr Glu Leu Arg Lys

*invalid - Per 1.823 of Sequence Rules, the only  
valid <213> responses are: Unknown,  
Artificial Sequence, or  
Scientific name (Genus/species)  
(one of the three)*  
  
*(See circled portion of  
item 12 on Error  
Summary Sheet)*

*Please ensure subsequent  
sequences do not show the above error.*

RAW SEQUENCE LISTING                      DATE: 04/22/2001  
PATENT APPLICATION: US/09/632,036              TIME: 13:48:02

Input Set : A:\ES.txt  
Output Set: N:\CRF3\04222001\I632036.raw

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294 1                      5
296 <210> SEQ ID NO: 23
297 <211> LENGTH: 9
298 <212> TYPE: PRT
299 <213> ORGANISM: Homo sapiens
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303 Val Leu Arg Glu Asn Thr Ser Pro Lys
304 1                      5
306 <210> SEQ ID NO: 24
307 <211> LENGTH: 9
308 <212> TYPE: PRT
309 <213> ORGANISM: Homo sapiens
311 <400> SEQUENCE: 24
313 Ala Ala Arg Pro Ala Gly Ala Thr Leu
314 1                      5
316 <210> SEQ ID NO: 25
317 <211> LENGTH: 9
318 <212> TYPE: PRT
319 <213> ORGANISM: Homo sapiens
321 <400> SEQUENCE: 25
323 Leu Pro Ala Ser Pro Glu Thr His Leu
324 1                      5
326 <210> SEQ ID NO: 26
327 <211> LENGTH: 10
328 <212> TYPE: PRT
329 <213> ORGANISM: Homo sapiens
331 <400> SEQUENCE: 26
333 Leu Pro Thr His Asp Pro Ser Leu Pro Leu
334 1                      5                      10
336 <210> SEQ ID NO: 27
337 <211> LENGTH: 9
338 <212> TYPE: PRT
339 <213> ORGANISM: Homo sapiens
341 <400> SEQUENCE: 27
343 Cys Arg Trp Gly Leu Leu Leu Ala Leu
344 1                      5
346 <210> SEQ ID NO: 28
347 <211> LENGTH: 9
348 <212> TYPE: PRT
349 <213> ORGANISM: Homo sapiens
351 <400> SEQUENCE: 28
353 Arg Arg Phe Thr His Gln Ser Asp Val
354 1                      5
356 <210> SEQ ID NO: 29
357 <211> LENGTH: 9
358 <212> TYPE: PRT
359 <213> ORGANISM: Homo sapiens
361 <400> SEQUENCE: 29
363 Gly Arg Ile Leu His Asn Gly Ala Tyr
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VERIFICATION SUMMARY                      DATE: 04/22/2001  
PATENT APPLICATION: US/09/632,036        TIME: 13:48:03

Input Set : A:\ES.txt  
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# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/632,036

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1        Wrapped Nucleics      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
  
- 2        Wrapped Aminos      The amino acid number/text at the end of each line "wrapped " down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
  
- 3        Incorrect Line Length      The rules require that a line not exceed 72 characters in length. This includes spaces.
  
- 4        Misaligned Amino Acid      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs  
Numbering      between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
  
- 5        Non-ASCII      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
  
- 6        Variable Length      Sequence(s)        contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and  
indicate in the (ix) feature section that some may be missing.
  
- 7        PatentIn ver. 2.0 "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid  
sequence(s)       . Normally, PatentIn would automatically generate this section from the  
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section  
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>  
sections for Artificial or Unknown sequences.
  
- 8        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence:  
(OLD RULES)      (2) INFORMATION FOR SEQ ID NO:X:  
                         (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
                         (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
                         This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
  
- 9        Skipped Sequences      Sequence(s)        missing. If intentional, please use the following format for each skipped sequence.  
(NEW RULES)      <210> sequence id number  
                         <400> sequence id number  
                         000
  
- 10        Use of n's or Xaa's      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
  
- 11        Use of "Artificial"      Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules.  
(NEW RULES)      Valid response is Artificial Sequence.
  
- 12        Use of <220>Feature      Sequence(s)        are missing the <220>Feature and associated headings.  
(NEW RULES)      Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial Sequence" or "Unknown"  
                         Please explain source of genetic material in <220> to <223> section.  
                         (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
  
- 13        PatentIn ver. 2.0 "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted  
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.